



Developing and applying high-throughput exposure models for screening-level chemical assessment: The ExpoDat project

Arnot, Jon ; Ernstoff, Alexi; Shin, Hyeong-Moo ; Csizar, Susan ; Fantke, Peter; Zhang, Xianming ; Jolliet, Olivier; Bennett, Deborah ; Wetmore, Barbara

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ICCA-LRI and JRC Workshop
Lugano, Switzerland · 17-18 June, 2014

What Is Safe?

**Integrating Multi-Disciplinary Approaches for
Decision Making about the Human Health and
Environmental Impacts of Chemicals**

WORKSHOP CO-CHAIRS:

Julia Fentem

Unilever

Maurice Whelan

European Commission, Joint Research Centre



INTERNATIONAL
COUNCIL OF
CHEMICAL
ASSOCIATIONS



Program at a Glance

Monday, 16 June

Tuesday, 17 June

Wednesday, 18 June

7:00

7:00 – 8:00: Registration and Continental Breakfast

7:00 – 8:00: Registration and Continental Breakfast

8:00

8:00 – 8:30: Welcome and Opening Remarks

8:00 – 8:15: Welcome

9:00

8:30 – 10:00: Setting the Stage

8:15 – 9:30: Exposure Science: Innovative Approaches to Assess the Safety of Chemicals

9:30 – 10:00: Morning Break

10:00

10:00 – 10:30: Morning Break

10:00 – 10:50: Exposure Science: Innovative Approaches to Assess the Safety of Chemicals (Continued)

11:00

10:30 – 11:45: Mechanisms of Toxicity: Perspectives from Human Toxicology and Ecotoxicology

10:50 – 11:45: Panel Discussion: Exposure Science

12:00

11:45– 12:45: Panel Discussion: Mechanisms of Toxicity

11:45 – 13:15: Lunch

13:00

12:45 – 14:00: Lunch

13:15 – 14:30: Epidemiology: Examining Links Between Chemical Exposures and Health Effects

14:00

14:00 – 15:15: Toxicokinetics: Advancing Understanding of Toxicity Pathways

14:30 – 15:25: Panel Discussion: Epidemiology

15:00

15:15 – 15:45: Afternoon Break

15:25 – 16:00: Afternoon Break

16:00

15:45 – 16:40: Panel Discussion: Toxicokinetics

16:00 – 17:00: What is Safe? The Path Forward for Decision Making

17:00

16:40 – 17:10: Bridging Toxicology and Exposure Science

17:00 – 17:05: Closing Remarks

17:10 – 17:15: Day 1 Conclusion

17:00 – 19:00: Early Registration and Welcome Reception

17:15 – 19:30: Poster Reception

19:30: Dinner

Tuesday, 17 June 2014

Registration and Continental Breakfast

7:00 – 8:00

Location: Panorama

Welcome and Opening Remarks

8:00 – 8:30

Location: Ceresio

Welcome Address

- Janet Mostowy, ICCA-LRI Planning Group Chair, Bayer MaterialScience, USA
- Krzysztof Maruszewski, European Commission, Joint Research Centre, Italy

Opening Remarks and Day 1 Workshop Goals

- Julia Fentem, Workshop Co-Chair, Unilever, UK
- Maurice Whelan, Workshop Co-Chair, European Commission, Joint Research Centre, Italy

Setting the Stage

8:30 – 10:00

Location: Ceresio

Session Chair: Maurice Whelan, Workshop Co-Chair, European Commission, Joint Research Centre, Italy

Decision Making for Chemicals – Academic Perspective

- Jim Bridges, University of Surrey, UK

Decision Making for Chemicals – Industry Perspective

- Tim Pastoor, Syngenta, USA

Decision Making for Chemicals – Regulatory Perspective

- John Vandenberg, U.S. Environmental Protection Agency, USA

Morning Break

10:00 – 10:30

Location: Panorama

Mechanisms of Toxicity: Perspectives from Human Toxicology and Ecotoxicology

10:30 – 11:45

Location: Ceresio

Session Chair: Melvin Andersen, The Hamner Institutes for Human Health, USA

Speakers:

- Paul Carmichael, Unilever, UK
- Martin Wilks, Swiss Centre for Applied Human Toxicology; University of Basel, Switzerland
- Dan Villeneuve, U.S. Environmental Protection Agency, USA

Tuesday, 17 June 2014

Panel Discussion: Mechanisms of Toxicity

11:45 AM – 12:45

Location: *Ceresio*

Facilitator: Melvin Andersen, The Hamner Institutes for Health Sciences, USA

Panelists:

- Kevin Chipman, University of Birmingham, UK
- Kevin Crofton, U.S. Environmental Protection Agency, USA
- Kathy Plotzke, Dow Corning Corporation, USA

Lunch

12:45 – 14:00

Location: *Panorama*

Toxicokinetics: Advancing Understanding of Toxicity Pathways

14:00 – 15:15

Location: *Ceresio*

Session Chair: Paul van den Brink, Alterra and Wageningen University, The Netherlands

Speakers:

- Roman Ashauer, University of York, UK
- Jos Bessems, European Commission's Joint Research Centre, Italy
- Philipp Mayer, Technical University of Denmark, Denmark

Afternoon Break

15:15 – 15:45

Location: *Panorama*

Panel Discussion: Toxicokinetics

15:45 – 16:40

Location: *Ceresio*

Facilitator: Paul van den Brink, Alterra and Wageningen University, The Netherlands

Panelists:

- Bas Blaauboer, Utrecht University, The Netherlands
- Peter Boogaard, Shell Health, The Netherlands
- Ila Cote, U.S. Environmental Protection Agency, USA

Tuesday, 17 June 2014

Bridging Toxicology and Exposure Science

16:40 – 17:10

Location: Ceresio

Session Chair: Maurice Whelan, Workshop Co-Chair, European Commission, Joint Research Centre, Italy

The exposome – An approach for understanding environmental exposures

- Paolo Vineis, Imperial College, UK

Day 1 Conclusion

17:10 – 17:15

Location: Ceresio

Day 1 Conclusion

- Brenda Barry, American Chemistry Council, USA

Reception and Poster Viewing

17:30 – 19:30

Location: Panorama

Group Dinner

19:30

Location TBD

Wednesday, 18 June 2014

Registration and Continental Breakfast

7:00 – 8:00 *Location: Panorama*

Welcome

8:00 – 8:15 *Location: Ceresio*

Welcome and Day 2 Workshop Goals

- Julia Fentem, Workshop Co-Chair, Unilever, UK

Exposure Science: Innovative Approaches to Assess the Safety of Chemicals

8:15 – 9:30 *Location: Ceresio*

Session Chair: Bette Meek, University of Ottawa, Canada

Speakers:

- Keith Solomon, University of Guelph, Canada
- Peter Egeghy, U.S. Environmental Protection Agency, USA
- Jon Arnot, ARC Consulting, University of Toronto, Canada

Morning Break

9:30 – 10:00 *Location: Panorama*

Exposure Science: Innovative Approaches to Assess the Safety of Chemicals (Continued)

10:00 – 10:50 *Location: Ceresio*

Session Chair: Bette Meek, University of Ottawa, Canada

Speakers:

- Denis Sarigiannis, Aristotle University of Thessaloniki, Greece
- Hiroyuki Kusuhara, University of Tokyo, Japan

Panel Discussion: Exposure Science

10:50 – 11:45 *Location: Ceresio*

Facilitator: Bette Meek, University of Ottawa, Canada

Panelists:

- Annette Guiseppi-Elie, DuPont Engineering, USA
- Jennifer Orme-Zavaleta, U.S. Environmental Protection Agency, USA
- Martin Scheringer, ETH Zürich, Switzerland

Lunch

11:45 – 13:15 *Location: Panorama*

Wednesday, 18 June 2014

Epidemiology: Examining Links Between Chemical Exposures and Health Effects

13:15 – 14:30

Location: *Ceresio*

Session Chair: R. Jeffrey Lewis, ExxonMobil Biomedical Sciences, Inc., USA

Speakers:

- Gerard Swaen, University of Maastricht, The Netherlands
- Anna Hansell, Imperial College, United Kingdom
- Donald Mattison, Risk Sciences International, Canada

Panel Discussion: Epidemiology

14:30 – 15:25

Location: *Ceresio*

Facilitator: R. Jeffrey Lewis, ExxonMobil Biomedical Sciences, Inc., USA

Panelists:

- Julie Goodman, Gradient Corporation, USA
- Judy LaKind, LaKind Associates, LLC, USA
- Carlo La Vecchia, Mario Negri Institute, Milan, Italy

Afternoon Break

15:25 – 16:00

Location: *Panorama*

What is Safe? The Path Forward for Decision Making

16:00 – 17:00

Location: *Ceresio*

Speakers:

- Jim Jones, U.S. Environmental Protection Agency, USA
- Karen Niven, Shell International B.V., The Netherlands

Closing Remarks

17:00 – 17:05

Location: *Ceresio*

- Julia Fentem, Workshop Co-Chair, Unilever, UK
- Maurice Whelan, Workshop Co-Chair, European Commission's Joint Research Centre, Italy